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AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. - 7. (Canceled)

8.   (Previously presented) Pseudo 3-D space representation system as defined in any one of claims 43, 44, 63, and 64, wherein the image transforming means has an interpolation image generating means for generating a series of interpolating images by affine transformation until a next original image is displayed, and the display image changing means has an interpolation image display means for subsequently displaying the interpolation images generated by the interpolation image generating means.

9.   (Previously presented) Pseudo 3-D space representation system as defined in claim 8, further comprising a traversing time changing means for changing a traversing time necessary for changing a display image from an unchanged image to an original image, to represent a pseudo temporal distance according to a difference between the unchanged image and the original image.

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10.   (Previously presented) Pseudo 3-D representation system as defined in claim 8, wherein each image is provided with metadata including at least time information, and a calculation means is provided for calculating a time necessary for changing a display from an original image to another image, and the changing is completed within a calculated time.

11.   (Previously presented) Pseudo 3-D space representation system as defined in claim 8, wherein each image is provided with metadata including at least information about a position and a direction thereof, a calculation means is provided for calculating relative positions for each of two images according to the metadata, and changing a display from an original image to another image is completed according to a specified relationship between two positions.

12.   (Canceled)

13.   (Previously presented) Pseudo 3-D space representation system as defined in any one of claims 45, 46, 65, and 66, wherein the image transforming means has an interpolation image generating means for generating a series of interpolating images by affine transformation until a next original image is displayed, and the display image changing means has an interpolation image display means for

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subsequently displaying the interpolation images generated by the interpolation

image generating means.

14.   (Previously presented) Pseudo 3-D space representation system as

defined in claim 13, further comprising a traversing time changing means for

changing a traversing time necessary for changing a display image from an

unchanged image to an original image, to represent a pseudo temporal distance

according to a difference between the unchanged image and the original image.

15.   (Previously presented) Pseudo 3-D space representation system as

defined in claim 13, wherein each image is provided with metadata including at least

time information, and a calculation means is provided for calculating a time

necessary for changing a display from an original image to another image, and the

changing is completed within a calculated time.

16.   (Previously presented) Pseudo 3-D space representation system as

defined in claim 13, wherein each image is provided with metadata including at least

information about a position and a direction thereof, a calculation means is provided

for calculating relative positions for each of two images according to the metadata,

and changing a display from an original image to another image is completed

according to a specified relationship between two positions.

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17. - 33.   (Canceled)

34.   (Previously presented) Program for operating a computer as a game
system, utilizing a pseudo 3-D space representation system as defined in any one of
claims 49, 50, 69, and 70.

35.   (Previously presented) Program for operating a computer as an
electronic map display system, utilizing a pseudo 3-D space representation system
as defined in any one of claims 51, 52, 71, and 72.

36.   (Previously presented) Program for operating a computer as an
electronic map providing system, utilizing a pseudo 3-D space representation system
as defined in any one of claims 53, 54, 73, and 74.

37.   (Previously presented) Program for operating a computer as a
navigation system, utilizing a pseudo 3-D space representation system as defined in
any one of claims 55, 56, 75, and 76.

38.   (Previously presented) Program for operating a computer as a
navigation system, utilizing a pseudo 3-D space representation system as defined in
any one of claims 57, 58, 77, and 78.

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39.   (Canceled)

40.   (Previously presented) Program for operating a computer to execute
an electronic map providing method, as defined in any one of claims 59 and 60.

41.   (Previously presented) Program for operating a computer to execute
a navigation method, as defined in any one of claims 61 and 62.

42.   (Canceled)

43.   (Previously presented) A pseudo 3-D space representation system for
representing a pseudo 3-D space with a plurality of 2-D images, comprising:

        a specified area associating means for associating one or more sets of areas
specified on one image and the other image or images as common parts;

        an image transforming means for transforming one or both images through
affine transformation by matching the corresponding areas specified on the images;
and

        an image display means for displaying both images as superposed on each
other;

        wherein the image transforming means has a means for transforming image
shape in order that the selected image or the specified image of the both images

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superposed each other by the image display means is transformed to the original

shape, the image shape being the shape of the other image of the both images or the

both images, and the image display means has an image presenting means for

presenting selectable images other than the original one and a display image changing

means for changing the displayed images by displaying both images transformed by

the image transforming means.

44.   (Previously presented) A pseudo 3-D space representation system for

representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area transforming means for transforming an area specified on an

image through affine transformation;

a specified area retrieving means for retrieving a part common with the

specified area from plural images;

an image transforming means for transforming one or both images through

affine transformation in such a way that the specified area and the retrieved area may

matched with each other; and

an image display means for displaying both images superposed on each other;

wherein the image transforming means has a means for transforming image

shape in order that the selected image or the specified image of the both images

superposed each other by the image display means is transformed to the original

shape, the image shape being the shape of the other image of the both images or the

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both images, and the image display means has an image presenting means for

presenting selectable images other than the original one and a display image changing

means for changing the displayed images by displaying both images transformed by

the image transforming means.

45.   (Previously presented) A pseudo 3-D space representation system for

representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area associating means for associating one or more sets of areas

specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through

affine transformation by matching the corresponding areas specified on the images;

and

an image display means for displaying both images as superposed on each

other;

wherein the image display means has an area presenting means for selectively

presenting an area on an image associated with an area on another image and a

display image changing means for changing display image by displaying the

associated original image of the another image when the area presented by the area

presenting means is selected.

46.   (Previously presented) A pseudo 3-D space representation system for

representing a pseudo 3-D space with a plurality of 2-D images, comprising:

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a specified area transforming means for transforming an area specified on an image through affine transformation;

a specified area retrieving means for retrieving a part common with the specified area from plural images;

an image transforming means for transforming one or both images through affine transformation in such a way that the specified area and the retrieved area may matched with each other; and

an image display means for displaying both images superposed on each other;

wherein the image display means has an area presenting means for selectively presenting an area on an image associated with an area on another image and a display image changing means for changing display image by displaying the associated original image of the another image when the area presented by the area presenting means is selected.

47.   (Previously presented) A pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area associating means for associating one or more sets of areas specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through affine transformation by matching the corresponding areas specified on the images; and

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an image display means for displaying both images as superposed on each other;

wherein an image is provided with metadata including at least information about a position and a direction thereof and there is provided a means for identifying a position of the image based on the each metadata and associating the metadata with the electronic map and a means for displaying the image identified by the metadata on the electronic map.

48. (Previously presented) A pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area transforming means for transforming an area specified on an image through affine transformation;

a specified area retrieving means for retrieving a part common with the specified area from plural images;

an image transforming means for transforming one or both images through affine transformation in such a way that the specified area and the retrieved area may matched with each other; and

an image display means for displaying both images superposed on each other;

wherein an image is provided with metadata including at least information about a position and a direction thereof and there is provided a means for identifying a position of the image based on the each metadata and associating the metadata with

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the electronic map and a means for displaying the image identified by the metadata on the electronic map.

49.   (Previously presented) A game system for playing a game for specifying an area on an image by using a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area associating means for associating one or more sets of areas specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through affine transformation by matching the corresponding areas specified on the images; and

an image display means for displaying both images as superposed on each other;

such that further specifying an area of another image associated with the specified area and repeating the same until all specified images are linked, which has an image database storing a plurality of image groups each composed of a plurality of images associated with each other in such a way that areas of images can be linked only in a specified order and which presents a group of images for users to specify areas one on each of two images, links two specified areas, adds points of the links and presents

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remaining images of the group excepting two images which areas were specified and repeats the same steps.

50.   (Previously presented) A game system for playing a game for specifying an area on an image by using a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area transforming means for transforming an area specified on an image through affine transformation;

a specified area retrieving means for retrieving a part common with the specified area from plural images;

an image transforming means for transforming one or both images through affine transformation in such a way that the specified area and the retrieved area may matched with each other; and

an image display means for displaying both images superposed on each other;

such that further specifying an area of another image associated with the specified area and repeating the same until all specified images are linked, which has an image database storing a plurality of image groups each composed of a plurality of images associated with each other in such a way that areas of images can be linked only in a specified order and which presents a group of images for users to specify areas one

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on each of two images, links two specified areas, adds points of the links and presents

remaining images of the group excepting two images which areas were specified and

repeats the same steps.

51.   (Previously presented) An electronic map display system, comprising

a pseudo 3-D space representation system for representing a pseudo 3-D space with a

plurality of 2-D images, said pseudo 3-D space representation system comprising:

a specified area associating means for associating one or more sets of areas

specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through

affine transformation by matching the corresponding areas specified on the images; and

an image display means for displaying both images as superposed on each

other;

wherein said pseudo 3-D space representation system is embedded in a

corresponding position on an electronic map or is linked thereto and displayed thereon.

52.   (Previously presented) An electronic map display system, comprising

a pseudo 3-D space representation system for representing a pseudo 3-D space with a

plurality of 2-D images, said pseudo 3-D space representation system comprising:

a specified area transforming means for transforming an area specified on an

image through affine transformation;

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a specified area retrieving means for retrieving a part common with the specified area from plural images;

an image transforming means for transforming one or both images through affine transformation in such a way that the specified area and the retrieved area may matched with each other; and

an image display means for displaying both images superposed on each other;

wherein said pseudo 3-D space representation system is embedded in a corresponding position on an electronic map or is linked thereto and displayed thereon.

53. (Previously presented) An electronic map providing system comprising a server device having an electronic map database containing a pseudo 3-D spatial electronic map prepared by embedding in corresponding positions thereof or linked thereto pseudo 3-D space representation images created by using a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, said 3-D space representation system comprising:

a specified area associating means for associating one or more sets of areas specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through affine transformation by matching the corresponding areas specified on the images; and

an image display means for displaying both images as superposed on each other;

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wherein the server device connected to a number of client devices through a network retrieves the pseudo 3-D special electronic map in the electronic map database in response to access from the client device and provides it to the client device.

54.   (Previously presented) An electronic map providing system comprising a server device having an electronic map database containing a pseudo 3-D spatial electronic map prepared by embedding in corresponding positions thereof or linked thereto pseudo 3-D space representation images created by using a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, said 3-D space representation system comprising:

a specified area transforming means for transforming an area specified on an image through affine transformation;

a specified area retrieving means for retrieving a part common with the specified area from plural images;

an image transforming means for transforming one or both images through affine transformation in such a way that the specified area and the retrieved area may matched with each other; and

an image display means for displaying both images superposed on each other;

wherein the server device connected to a number of client devices through a network retrieves the pseudo 3-D special electronic map in the electronic map database in response to access from the client device and provides it to the client device.

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55.   (Previously presented) A navigation system comprising a server device comprising an electronic map database containing a pseudo 3-D spatial electronic map comprising a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, said pseudo 3-D space representation comprising:

a specified area associating means for associating one or more sets of areas specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through affine transformation by matching the corresponding areas specified on the images; and

an image display means for displaying both images as superposed on each other;

prepared by embedding in corresponding positions thereon or linked thereto a pseudo 3-D space representation image created by using said pseudo 3-D space representation system, wherein the server device is connected to a number of client devices capable of detecting its present position through network and, in response to an access from any client device indicating its current position, it retrieves in the electronic map database and provides the client device with pseudo 3-D spatial electronic map corresponding to the current position, thus navigating the user of the client device.

56.   (Previously presented) A navigation system comprising a server device comprising an electronic map database containing a pseudo 3-D spatial electronic map

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comprising a pseudo 3-D space representation system for representing a pseudo 3-D

space with a plurality of 2-D images, said pseudo 3-D space representation comprising:

a specified area transforming means for transforming an area specified on an

image through affine transformation;

a specified area retrieving means for retrieving a part common with the

specified area from plural images;

an image transforming means for transforming one or both images through

affine transformation in such a way that the specified area and the retrieved area may

matched with each other; and

an image display means for displaying both images superposed on each other;

prepared by embedding in corresponding positions thereon or linked thereto a

pseudo 3-D space representation image created by using said pseudo 3-D space

representation system, wherein the server device is connected to a number of client

devices capable of detecting its present position through network and, in response to

an access from any client device indicating its current position, it retrieves in the

electronic map database and provides the client device with pseudo 3-D spatial

electronic map corresponding to the current position, thus navigating the user of the

client device.

57.   (Previously presented) A navigation system comprising an electronic

map database containing a pseudo 3-D spatial electronic map prepared by embedding

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in corresponding positions thereon or linked thereto a pseudo 3-D space representation

image created by using a pseudo 3-D space representation system for representing a

pseudo 3-D space with a plurality of 2-D images, said pseudo 3-D space representation

system comprising:

a specified area associating means for associating one or more sets of areas

specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through

affine transformation by matching the corresponding areas specified on the images; and

an image display means for displaying both images as superposed on each

other;

such that said navigation system navigates a user by detecting a current

position, searching an electronic map corresponding to the detected current position in

the electronic database, and displaying the pseudo 3-D spatial electronic map on a

display screen of the user device.

58. (Previously presented) A navigation system comprising an electronic

map database containing a pseudo 3-D spatial electronic map prepared by embedding

in corresponding positions thereon or linked thereto a pseudo 3-D space representation

image created by using a pseudo 3-D space representation system for representing a

pseudo 3-D space with a plurality of 2-D images, said pseudo 3-D space representation

system comprising:

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a specified area transforming means for transforming an area specified on an image through affine transformation;

a specified area retrieving means for retrieving a part common with the specified area from plural images;

an image transforming means for transforming one or both images through affine transformation in such a way that the specified area and the retrieved area may matched with each other; and

an image display means for displaying both images superposed on each other;

such that said navigation system navigates a user by detecting a current position, searching an electronic map corresponding to the detected current position in the electronic database, and displaying the pseudo 3-D spatial electronic map on a display screen of the user device.

59.   (Previously presented) An electronic map displaying method comprising preparing a pseudo 3-D spatial representation image utilizing a pseudo 3-D space representing method comprising:

executing steps of displaying a plurality of images to a user, causing the user to specify areas on each of two or more images, associating the specified area of one displayed image with the specified area of the other displayed image as common parts, transforming the shape of one or both images through affine transformation by matching the paired areas and superposing both images;

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wherein said pseudo 3-D spatial representation image is embedded in a

corresponding position on an electronic map or linked thereto to display the same

representation image on the electronic map.

60.   (Previously presented) An electronic map displaying method comprising

preparing a pseudo 3-D spatial representation image utilizing a pseudo 3-D space

representing method comprising:

performing the steps of displaying an image to a user, causing the user to

specify an area on the displayed image, transforming the specified area by affine

transformation, retrieving a part common to the specified area from a plurality of

images, transforming the shape of one or both images through affine transformation to

match the specified area with the area extracted by the retrieval and displaying both

images superposed on each other;

wherein said pseudo 3-D spatial representation image is embedded in a

corresponding position on an electronic map or linked thereto to display the same

representation image on the electronic map.

61.   (Previously presented) A navigation method for navigating users,

comprising providing through a network a pseudo 3-D spatial electronic map prepared

by a pseudo 3-D space representing method comprising preparing a pseudo 3-D spatial

representation image, said pseudo 3-D space representing method comprising:

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executing steps of displaying a plurality of images to a user, causing the user

to specify areas on each of two or more images, associating the specified area of one

displayed image with the specified area of the other displayed image as common parts,

transforming the shape of one or both images through affine transformation by

matching the paired areas and superposing both images;

wherein said pseudo 3-D spatial representation image is embedded in or linked

to corresponding positions on the electronic map.

62.   (Previously presented) A navigation method for navigating users,

comprising providing through a network a pseudo 3-D spatial electronic map prepared

by a pseudo 3-D space representing method comprising preparing a pseudo 3-D spatial

representation image, said pseudo 3-D space representing method comprising:

performing the steps of displaying an image to a user, causing the user to

specify an area on the displayed image, transforming the specified area by affine

transformation, retrieving a part common to the specified area from a plurality of

images, transforming the shape of one or both images through affine transformation to

match the specified area with the area extracted by the retrieval and displaying both

images superposed on each other;

wherein said pseudo 3-D spatial representation image is embedded in or linked

to corresponding positions on the electronic map.

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63.   (Previously presented) A pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area associating means for associating one or more sets of areas specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through affine transformation by matching the corresponding areas specified on the images;

an image display means for displaying both images as superposed on each other;

an operation image display means for displaying a plurality of images; and

an area specifying means for allowing a user to specify areas on each of two or more images displayed to the user;

wherein the image transforming means has a means for transforming image shape in order that the selected image or the specified image of the both images superposed each other by the image display means is transformed to the original shape, the image shape being the shape of the other image of the both images or the both images, and the image display means has an image presenting means for presenting selectable images other than the original one and a display image changing means for changing the displayed images by displaying both images transformed by the image transforming means.

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64.   (Previously presented) A pseudo 3-D space representation system for

representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area transforming means for transforming an area specified on an

image through affine transformation;

a specified area retrieving means for retrieving a part common with the

specified area from plural images;

an image transforming means for transforming one or both images through

affine transformation in such a way that the specified area and the retrieved area may

matched with each other;

an image display means for displaying both images superposed on each other;

an operation image display means for displaying an image; and

an area specifying means for specifying an area on the displayed image;

wherein the image transforming means has a means for transforming image

shape in order that the selected image or the specified image of the both images

superposed each other by the image display means is transformed to the original shape,

the image shape being the shape of the other image of the both images or the both

images, and the image display means has an image presenting means for presenting

selectable images other than the original one and a display image changing means for

changing the displayed images by displaying both images transformed by the image

transforming means.

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65.   (Previously presented) A pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area associating means for associating one or more sets of areas specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through affine transformation by matching the corresponding areas specified on the images;

an image display means for displaying both images as superposed on each other;

an operation image display means for displaying a plurality of images; and

an area specifying means for allowing a user to specify areas on each of two or more images displayed to the user;

wherein the image display means has an area presenting means for selectively presenting an area on an image associated with an area on another image and a display image changing means for changing display image by displaying the associated original image of the another image when the area presented by the area presenting means is selected.

66.   (Previously presented) A pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area transforming means for transforming an area specified on an image through affine transformation;

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a specified area retrieving means for retrieving a part common with the specified area from plural images;

an image transforming means for transforming one or both images through affine transformation in such a way that the specified area and the retrieved area may matched with each other; and

an image display means for displaying both images superposed on each other;

an operation image display means for displaying an image; and

an area specifying means for specifying an area on the displayed image;

wherein the image display means has an area presenting means for selectively presenting an area on an image associated with an area on another image and a display image changing means for changing display image by displaying the associated original image of the another image when the area presented by the area presenting means is selected.

67.   (Previously presented) A pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area associating means for associating one or more sets of areas specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through affine transformation by matching the corresponding areas specified on the images;

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an image display means for displaying both images as superposed on each

other;

an operation image display means for displaying a plurality of images; and

an area specifying means for allowing a user to specify areas on each of two or

more images displayed to the user;

wherein an image is provided with metadata including at least information

about a position and a direction thereof and there is provided a means for identifying

a position of the image based on the each metadata and associating the metadata with

the electronic map and a means for displaying the image identified by the metadata on

the electronic map.

68.   (Previously presented) A pseudo 3-D space representation system for

representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area transforming means for transforming an area specified on an

image through affine transformation;

a specified area retrieving means for retrieving a part common with the

specified area from plural images;

an image transforming means for transforming one or both images through

affine transformation in such a way that the specified area and the retrieved area may

matched with each other;

an image display means for displaying both images superposed on each other;

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an operation image display means for displaying an image; and an area specifying means for specifying an area on the displayed image;

wherein an image is provided with metadata including at least information about a position and a direction thereof and there is provided a means for identifying a position of the image based on the each metadata and associating the metadata with the electronic map and a means for displaying the image identified by the metadata on the electronic map.

69.   (Previously presented) A game system for playing a game for specifying an area on an image by using a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area associating means for associating one or more sets of areas specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through affine transformation by matching the corresponding areas specified on the images;

an image display means for displaying both images as superposed on each other;

an operation image display means for displaying a plurality of images; and

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an area specifying means for allowing a user to specify areas on each of two or more images displayed to the user;

such that further specifying an area of another image associated with the specified area and repeating the same until all specified images are linked, which has an image database storing a plurality of image groups each composed of a plurality of images associated with each other in such a way that areas of images can be linked only in a specified order and which presents a group of images for users to specify areas one on each of two images, links two specified areas, adds points of the links and presents remaining images of the group excepting two images which areas were specified and repeats the same steps.

70. (Previously presented) A game system for playing a game for specifying an area on an image by using a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a pseudo 3-D space representation system for representing a pseudo 3-D space with a plurality of 2-D images, comprising:

a specified area transforming means for transforming an area specified on an image through affine transformation;

a specified area retrieving means for retrieving a part common with the specified area from plural images;

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an image transforming means for transforming one or both images through

affine transformation in such a way that the specified area and the retrieved area may

matched with each other;

an image display means for displaying both images superposed on each other;

an operation image display means for displaying an image; and

an area specifying means for specifying an area on the displayed image;

such that further specifying an area of another image associated with the

specified area and repeating the same until all specified images are linked, which has

an image database storing a plurality of image groups each composed of a plurality of

images associated with each other in such a way that areas of images can be linked only

in a specified order and which presents a group of images for users to specify areas one

on each of two images, links two specified areas, adds points of the links and presents

remaining images of the group excepting two images which areas were specified and

repeats the same steps.

71.   (Previously presented) An electronic map display system, comprising

a pseudo 3-D space representation system for representing a pseudo 3-D space with a

plurality of 2-D images, said pseudo 3-D space representation system comprising:

a specified area associating means for associating one or more sets of areas

specified on one image and the other image or images as common parts;

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an image transforming means for transforming one or both images through

affine transformation by matching the corresponding areas specified on the images;

an image display means for displaying both images as superposed on each

other;

an operation image display means for displaying a plurality of images; and

an area specifying means for allowing a user to specify areas on each of two or

more images displayed to the user;

wherein said pseudo 3-D space representation system is embedded in a

corresponding position on an electronic map or is linked thereto and displayed thereon.

72.   (Previously presented) An electronic map display system, comprising

a pseudo 3-D space representation system for representing a pseudo 3-D space with a

plurality of 2-D images, said pseudo 3-D space representation system comprising:

a specified area transforming means for transforming an area specified on an

image through affine transformation;

a specified area retrieving means for retrieving a part common with the

specified area from plural images;

an image transforming means for transforming one or both images through

affine transformation in such a way that the specified area and the retrieved area may

matched with each other;

an image display means for displaying both images superposed on each other;

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an operation image display means for displaying an image; and

an area specifying means for specifying an area on the displayed image;

wherein said pseudo 3-D space representation system is embedded in a

corresponding position on an electronic map or is linked thereto and displayed thereon.

73.   (Previously presented) An electronic map providing system comprising

a server device having an electronic map database containing a pseudo 3-D spatial

electronic map prepared by embedding in corresponding positions thereof or linked

thereto pseudo 3-D space representation images created by using a pseudo 3-D space

representation system for representing a pseudo 3-D space with a plurality of 2-D

images, said 3-D space representation system comprising:

a specified area associating means for associating one or more sets of areas

specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through

affine transformation by matching the corresponding areas specified on the images;

an image display means for displaying both images as superposed on each

other;

an operation image display means for displaying a plurality of images; and

an area specifying means for allowing a user to specify areas on each of two or

more images displayed to the user;

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wherein the server device connected to a number of client devices through a

network retrieves the pseudo 3-D special electronic map in the electronic map database

in response to access from the client device and provides it to the client device.

74.   (Previously presented) An electronic map providing system comprising

a server device having an electronic map database containing a pseudo 3-D spatial

electronic map prepared by embedding in corresponding positions thereof or linked

thereto pseudo 3-D space representation images created by using a pseudo 3-D space

representation system for representing a pseudo 3-D space with a plurality of 2-D

images, said 3-D space representation system comprising:

a specified area transforming means for transforming an area specified on an

image through affine transformation;

a specified area retrieving means for retrieving a part common with the

specified area from plural images;

an image transforming means for transforming one or both images through

affine transformation in such a way that the specified area and the retrieved area may

matched with each other;

an image display means for displaying both images superposed on each other;

an operation image display means for displaying an image; and

an area specifying means for specifying an area on the displayed image;

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wherein the server device connected to a number of client devices through a

network retrieves the pseudo 3-D special electronic map in the electronic map database

in response to access from the client device and provides it to the client device.

75. (Previously presented) A navigation system comprising a server device

comprising an electronic map database containing a pseudo 3-D spatial electronic map

comprising a pseudo 3-D space representation system for representing a pseudo 3-D

space with a plurality of 2-D images, said pseudo 3-D space representation comprising:

a specified area associating means for associating one or more sets of areas

specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through

affine transformation by matching the corresponding areas specified on the images; and

an image display means for displaying both images as superposed on each

other;

prepared by embedding in corresponding positions thereon or linked thereto a

pseudo 3-D space representation image created by using said pseudo 3-D space

representation system, wherein the server device is connected to a number of client

devices capable of detecting its present position through network and, in response to

an access from any client device indicating its current position, it retrieves in the

electronic map database and provides the client device with pseudo 3-D spatial

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electronic map corresponding to the current position, thus navigating the user of the

client device.

76.   (Previously presented) A navigation system comprising a server device

comprising an electronic map database containing a pseudo 3-D spatial electronic map

comprising a pseudo 3-D space representation system for representing a pseudo 3-D

space with a plurality of 2-D images, said pseudo 3-D space representation comprising:

a specified area transforming means for transforming an area specified on an

image through affine transformation;

a specified area retrieving means for retrieving a part common with the

specified area from plural images;

an image transforming means for transforming one or both images through

affine transformation in such a way that the specified area and the retrieved area may

matched with each other;

an image display means for displaying both images superposed on each other;

an operation image display means for displaying an image; and

an area specifying means for specifying an area on the displayed image;

prepared by embedding in corresponding positions thereon or linked thereto a

pseudo 3-D space representation image created by using said pseudo 3-D space

representation system, wherein the server device is connected to a number of client

devices capable of detecting its present position through network and, in response to

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an access from any client device indicating its current position, it retrieves in the

electronic map database and provides the client device with pseudo 3-D spatial

electronic map corresponding to the current position, thus navigating the user of the

client device.

77.   (Previously presented) A navigation system comprising an electronic

map database containing a pseudo 3-D spatial electronic map prepared by embedding

in corresponding positions thereon or linked thereto a pseudo 3-D space representation

image created by using a pseudo 3-D space representation system for representing a

pseudo 3-D space with a plurality of 2-D images, said pseudo 3-D space representation

system comprising:

a specified area associating means for associating one or more sets of areas

specified on one image and the other image or images as common parts;

an image transforming means for transforming one or both images through

affine transformation by matching the corresponding areas specified on the images;

an image display means for displaying both images as superposed on each

other;

an operation image display means for displaying a plurality of images; and

an area specifying means for allowing a user to specify areas on each of two or

more images displayed to the user;

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such that said navigation system navigates a user by detecting a current

position, searching an electronic map corresponding to the detected current position in

the electronic database, and displaying the pseudo 3-D spatial electronic map on a

display screen of the user device.

78.   (Previously presented) A navigation system comprising an electronic

map database containing a pseudo 3-D spatial electronic map prepared by embedding

in corresponding positions thereon or linked thereto a pseudo 3-D space representation

image created by using a pseudo 3-D space representation system for representing a

pseudo 3-D space with a plurality of 2-D images, said pseudo 3-D space representation

system comprising:

a specified area transforming means for transforming an area specified on an

image through affine transformation;

a specified area retrieving means for retrieving a part common with the

specified area from plural images;

an image transforming means for transforming one or both images through

affine transformation in such a way that the specified area and the retrieved area may

matched with each other;

an image display means for displaying both images superposed on each other;

an operation image display means for displaying an image; and

an area specifying means for specifying an area on the displayed image;

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such that said navigation system navigates a user by detecting a current

position, searching an electronic map corresponding to the detected current position in

the electronic database, and displaying the pseudo 3-D spatial electronic map on a

display screen of the user device.

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